

FIG. 3

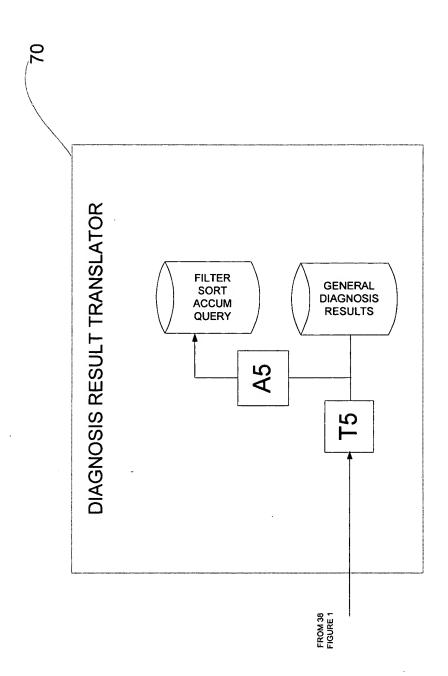
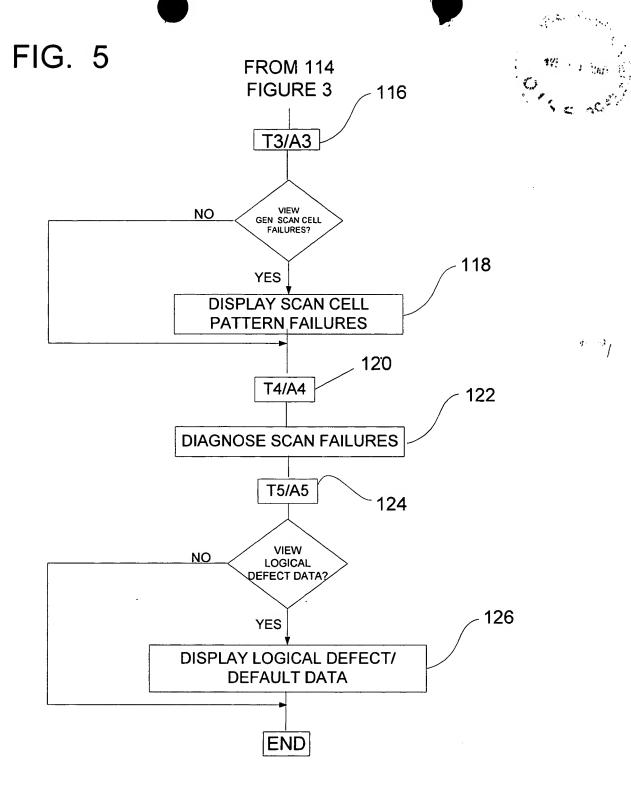


FIG. 4 **GENERATE ATPG** 100 **TEST PATTERNS** 102 TRANSLATE ATPG PATTERNS TO ATE 104 **TEST DEVICE** 106 **CAPTURE ATE PATTERN FAILURES** T1/A1 108 VIEW
GEN ATE PATTERN
FAILURES? NO 110 YES **DISPLAY GEN ATE** PATTERN FAILURES T2/A2 112 VIEW
GEN ATPG PATTERN
FAILURES? NO 114 YES DISPLAY GEN ATPG PATTERN FAILURES

TO 116 FIGURE 5



= ** * * * * * * * * * * * * * * * Interactive Scan Diagnosis Prototype	
File View Lookand Feel Help	X
Connect to Tester Connect to Diagnosis Tool Disconnect Status Status: Connected to IMAGE tester: tiger-S2	Diag
Debug Scan Test 2 at Site 0	
Toylog . doving 5. Cumulative Results for Test Scan Test 2 at Site 0.	F _Q
Accumulation by Scan Cell and Pattern	Wileys Loss
Count Chain Cell Pattem Devices	
188 265 Data: Scan Test 2-1 Data: Scan Test 2-2 Data	1
a chain6 93 495 Data: Scan Test 2- Dagnose this fall ure	20
187 797 Data: Scan Test 2-1, Data: Scan Test 2-3,	
Result	
device1 : Data: Scan Test 2-1	
FSelect Accumulation Mode device2 : Data: Scan Test 2-2	
C Chest Catach Carring	
C. Auto C. Manual Test Results By Scan Cell - By Scan Cell and Pattern By Pattern	
Cumulativa Scan Chain Display for Test Scan Test 9 at Site 0	E N
Zoom View Type	
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	88
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FIG. 6

File View Look and Feel Help Connect to Tester Connect to Di Device: device5 Scan Fail Table Scan Fault Last Result Last Result Accumulative Results for Test 3 chain6 93 495 3 chain6 92 338 3 chain6 92 338 3 chain6 92 338 3 chain6 92 338 3 chain6 90 561 3 chain6 90 561 3 chain6 90 561 3 chain6 92 338 3 chain6 90 561 3 chain6 92 338 3 chain6 92 338 3 chain6 92 338 3 chain6 90 561 3 chain6 92 338
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FIG. 7

le View Lo	File View Look and Feel I	Help		
Connect to T	Connect to Tester Connect to	ot to Diagnosis Tool Disconnect	lect status Status:	s: Connected to IMAGE tester : tiger-52
Diagnosis Tool	Tool			· · · · · · · · · · · · · · · · · · ·
Device Nar	Device Nam Test Result		Diagnosis Result	
r device 1	Data: Scan Test 2-	t 2-1	diagnosis_result_1	
r device3	Data:Scan Test 2-	t 2-3	diagnosis_result_2	
Z device4	Data: Scan Test 2-4	12-4	diagnosis_result_3	
-Show Result=				
Accumulat	区 Accumulated Diagnosis Resu	esult 🗀 Raw Diagnosis Result	TI TI	
Diagnose	Close	☐ Show GUI.		
Accumula	Accumulated Fault Equivalents	valents		
Count Fault Equivalent	quivalent	Node	Fault Type Detection Code	.code
fe2	/fpu 1,	ult_378_ix4405/Y	0 08	diagnosis_result_1,diagnosis_result_
	/fbn 1,	fipu1/u5/prod1_mult_378_ix4405/A	1 DS	
	/fpu 1.			
	/fpu 1,			
***************************************	/fpu1.	/fpu1/u5/ix2828/A1	0 08	
623	Tpu1,			
IES	//ISC 1/1x4 //iSC 1/1x4	1/1x4163/B0	1 DS	alagnosis_resuit_2
	/risc1	/risc1/ix5939/Y	1 DS	
	/risc1	/risp_1/iv5030/A	5U I	The second secon
Accumulate by Defect		Accumulate by Fault Equivalent	lent Accumulate by Node	by Node
*	**************************************		(* 14) (* 14)	

FIG. 8